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Application Number 09/938,144

Responsive to Office Action mailed March 1, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended): ~~A data storage device in a form factor assembly not greater than three and one half inches comprising:~~

a data disc rotatably mounted on a baseplate;

~~an actuator arm adjacent to the data disc carrying a transducer for reading data from and writing data to the data disc;~~

a printed circuit board (PCB) fastened to the baseplate having a servo controller in operable communication with the actuator arm for moving the actuator arm over the data disc; and

a central processing unit (CPU) mounted to the PCB generating control signals to the servo controller and running an operating system; and
~~memory storing an application program operably connected to the CPU, whereby the application program is run by the CPU.~~

Claim 2 (Currently Amended): The data storage device of claim 1 wherein the data storage device is connected to a communications network, further comprising:

an input/output module communicating to a node connected to the communications network.

Claim 3 (Currently Amended): The data storage device of claim 2 wherein the input/output module includes a network interface module operable to communicate to a node on the network using a hypertext transport protocol.

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Claim 4 (Currently Amended): The ~~data storage~~ device of claim 3 wherein the input/output module further includes a video interface module operable to drive a video monitor via the communications network.

Claim 5 (Currently Amended): The ~~data storage~~ device of claim 4 wherein the ~~data storage~~ device is a three and one half inch form factor assembly.

Claim 6 (Currently Amended): The ~~data storage~~ device of claim 5 further comprising a file system managing file data stored on the data disc, wherein the file system is in direct communication with the servo controller.

Claims 7-15 (Canceled).

Claim 16 (Currently Amended): A ~~data storage device having a three and one half inch form factor or less, the storage device~~ comprising:

~~a data disc rotatably mounted on a baseplate;~~

~~an actuator arm adjacent to the data disc carrying a transducer for reading data from and writing data to the data disc;~~

~~a printed circuit board (PCB); within the form factor fastened to the baseplate, the PCB having a servo controller mounted thereon in operable communication with the actuator arm for moving the actuator arm over the data disc;~~

~~_____ a central processing unit (CPU) mounted on the PCB and running an operating system; mounted thereon generating control signals to the servo controller; and~~

~~_____ a memory mounted on the PCB thereon storing an application program operably connected to the CPU, wherein the application program is run by the operating system running in the CPU.~~

Claim 17 (Previously Presented): The device according to claim 16 wherein the memory stores both the operating system and the application program for use by the CPU.

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Claim 18 (Currently Amended): An intelligent storage element comprising:
a case forming a substantially sealed environment;
a data disc mounted within the case, ~~wherein the data disc rotates about a central axis;~~
~~an actuator arm carrying a head to read and write data to the data disc;~~
a central processing unit mounted within the case; and
a memory mounted within the case, wherein the memory stores an operating system, and
the central processing unit runs the operating system.

Claim 19 (Previously Presented): The intelligent storage element of claim 18, wherein the data disc is a magnetic data storage media.

Claim 20 (Previously Presented): The intelligent storage element of claim 18, further comprising a network interface module, wherein the network interface module allows the intelligent storage element to communicate across a network.

Claim 21 (Previously Presented): The intelligent storage element of claim 20, wherein the network is a local area network.

Claim 22 (Previously Presented): The intelligent storage element of claim 18, wherein the case comprises a base and a top cover.

Claim 23 (Previously Presented): The intelligent storage element of claim 18, wherein the operating system runs application software stored on the data disc.

Claim 24 (New): The intelligent storage element of claim 18, wherein the memory is random access memory.

Claim 25 (New): The device of claim 1, further comprising:
a head that reads data from the data disc to produce a signal; and
a channel mounted to the PCB, wherein the channel receives the signal from the head.

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Claim 26 (New): The device of claim 1, wherein the CPU generates control signals to the servo controller.

Claim 27 (New): The device of claim 1, wherein the data disc stores an application program run by the operating system.

Claim 28 (New): The device of claim 16, wherein the operating system is a Linux operating system.